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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/276,868	03/26/1999	MICHAEL SIMONS	BIS-043	BIS-043 2716	
75	90 01/19/2006		EXAM	INER	
DAVID PRASHKER PC PO BOX 5387			KAM, CHIH MIN		
MAGNOLIA, MA 01930			ART UNIT	PAPER NUMBER	
			1656		

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/276,868	SIMONS ET AL.
Office Action Summary	Examiner	Art Unit
· · · · · · · · · · · · · · · · · · ·	Chih-Min Kam	1656
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. C (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 12 December 2a) This action is FINAL. 2b) Since this application is in condition for alloware closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 11 and 13-15 is/are pending in the ap 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11 and 13-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ access	vn from consideration. r election requirement.	Examiner.
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ite atent Application (PTO-152)

DETAILED ACTION

The Request for Continued Examination (RCE) filed on December 12, 2005 under 37
 CFR 1.114 is acknowledged. An action on the RCE follows.

Status of the Claims

2. Claims 11 and 13-15 are pending.

Applicants' amendment filed December 12, 2005 is acknowledged, and applicant's response has been fully considered. Claims 11 and 15 have been amended, thus claims 11 and 13-15 are examined.

Maintained Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Previous rejection of claims 11 and 13-15 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, is maintained. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a new matter rejection.

Claims 11 and 13-15 are directed to a PR-39 derived oligopeptide family whose members individually are operative and functional to cause a selective inhibition of proteasome-mediated degradation in-situ after introduction intracellularly to a viable cell, each member of said PR-39 derived oligopeptide family being a pharmacologically active oligopeptide which is not substantially greater than 11 amino acid residues or are less than 8 amino acid residues in length,

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whose N-terminal amino acid residue sequence begins with Arg-Arg-Arg, which is an analog of the amino acid sequence of native PR-39 peptide, which selectively alters the proteolytic degradation activity of proteasomes, which is selectively interacts in-situ with at least the α 7 subunit of proteasomes, and which is selectively inhibits proteolytic degradation mediated by the proteasomes against at least one peptide of $I\kappa B\alpha$ and hypoxia-inducing factor- 1α . While the specification indicates a member of PR-39 derived oligopeptide family is less than 39 amino acid residues, preferably is less than 20 residues (page 24, lines 12 –13), and further indicates the members "comprising" 15, 11 and 8 amino acid residues respectively in length (page 25, lines 1-4) represented as PR-15, PR-11 and PR-8 (the N-terminal fragments of PR-39; page 25), it does not disclose that active peptides are not substantially greater than 11 amino acid residues, or are less than 8 amino acid residues in length, nor describes any particular structure to function/activity relationship for the claimed species. The lack of description of the correlation of structure to function/activity and lack of representative species for the claimed peptide, one skilled in the art would not know how to identify a functional peptide. Thus, applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise terms that a skilled artisan would not recognize applicants were in possession of the claimed invention.

Response to Arguments

Applicants indicate that claims 11 and 15 have been amended to size-limited membership of PR-39 analog compositions which are not substantially greater than 11 amino acid residues or are less than 8 amino acid residues in length, and comprise a size-restricted family of PR-39 analog compositions which is severely limited in number, whose members are pharmacologically active, and two exemplary embodiments of this size-restricted family of oligopeptides are

identified and defined in dependent claims 13 and 14; that full information and detailed knowledge of the invention defined by currently amended independent claims 11 and 13-15 is to be found at pages 23-26 of the Specification; and empirical operative support is demonstrated by Experiment 6 (see page 45). Thus, that claimed invention is which is defined as the properly commensurate with that which is disclosed substantively equal to and by the written description of the Specification. Regarding the "new matter", applicant indicates the language of the claims did not depart from the totality of descriptive information and detailed knowledge presented by Specification text as a whole (pages 7-20 of the response).

Applicants' response has been considered, however, the argument is not found persuasive because the specification does not disclose active members of PR-39 derived oligopeptides are not substantially greater than 11 amino acid residues, or are less than 8 amino acid residues in length. Furthermore, the specification has not identified any PR-39 derived oligopeptide for the claimed species. The specification at pages 23-26 merely indicates an active member of PR-39 derived oligopeptide family having Arg-Arg-Arg at the N-terminus is less than 39 amino acid residues, preferably is less than 20 residues, and the members "comprising" 15, 11 and 8 amino acid residues respectively in length represented as PR-15, PR-11 and PR-8, and Experiment 6 (see page 45) only demonstrates PR11 (11 amino acid residues) has the activity of stimulating angiogenesis in vivo. Thus, due to the lack of description of the claimed species, a skilled artisan would not recognize applicants were in possession of the claimed invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 11, 13 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11, 13 and 14 are indefinite because of the use of the term "a pharmacologically active peptide which is not substantially greater than 11 amino acid residues in length". The term cited renders the claim indefinite, it is not clear what is the metes and bounds for the number of residues in the active peptide, e.g., is it 14, 13 or 12 amino acid residues? Claims 13 and 14 are included in this rejection for being dependent on a rejected claim and not correcting the deficiency of the claim from which they depend.

Conclusion

5. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Kerr can be reached at 571-272-0931. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Chih-Min Kam, Ph. D.

Patent Examiner

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CMK

January 17, 2006